

National 4 Homework 24

Questions 1, 2, & 4 are Non Calculator

1. a) $3 \cdot 45 + 8 \cdot 7 \times 4$ b) Increase 42kg by 80% c) Find $\frac{3}{7}$ of £85.89
- d) $(-5)^2 + 10 \div (-2)$ e) Simplify $\frac{48}{72}$ f) Factorise $24f + 18g$.

2. Change the subject of each formula to the letter shown in brackets [].

a) $D = V \times t$ [t] b) $5y = 4 - x$ [y] c) $5y = 4z - x$ [z] d) $P = Et$ [E]

3. Glen's wage (W) is based on both the number of hours he works (H) and the number of contracts he sells (C) in a week.

He earns £4.20 an hour and every contract he sells is worth £45.

a) Write down a formula to work out Glen's wage (W) if you know the number of hours he has worked if you know both the number of hours he has worked and the number of contracts he has sold.

b) How much will Glen earn in a week where he works 22 hours and sells 5 contracts?

4. In a class survey it was found that 28 out of the 30 pupils in the class were wearing full uniform.
What percentage of the class was wearing uniform?



5. a) Copy and Complete the table below for $y = 4x - 5$.

x	-1	0	1
y			

- b) Draw the line $y = 4x - 5$ on a coordinate axis in your jotter.

6. Calculate the mean, median, mode and range of the following leaf lengths.

12.1cm, 8.9cm, 17.1cm, 6.5cm, 10.2cm, 12.5cm, 8.5cm, 8.9cm, 9.8cm, 10.3cm

